BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:Improvements to Roads at Deo Residency and Legacy area of Jakkur Plantation in Ward No 07, Byatarayanapura

Measurements Taken On :

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
Item no.01		Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. and as per the directions of the Engineer-in-charge of the work .									
		Desilt									
		Road1(from NH4)									
		LHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	125		Cum	1	20.00			0.50	0.50	5.00	
		RHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	125		Cum	1	20.00			0.50	0.50	5.00	
		Road 2									
		LHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	120		Cum	1	15.00			0.50	0.50	3.75	
120	135		Cum	1	15.00			0.50	0.50	3.75	
135	150		Cum	1	15.00			0.50	0.50	3.75	
150	170		Cum	1	20.00			0.50	0.50	5.00	
		RHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	120		Cum	1	15.00			0.50	0.50	3.75	
120	135		Cum	1	15.00			0.50	0.50	3.75	

138.75

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

Contractor PMC

Assistant Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
135	150		Cum	1	15.00			0.50	0.50	3.75	
150	170		Cum	1	20.00			0.50	0.50	5.00	
		Road 3									
		LHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	120		Cum	1	15.00			0.50	0.50	3.75	
120	135		Cum	1	15.00			0.50	0.50	3.75	
135	150		Cum	1	15.00			0.50	0.50	3.75	
		RHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	120		Cum	1	15.00			0.50	0.50	3.75	
120	135		Cum	1	15.00			0.50	0.50	3.75	
135	150		Cum	1	15.00			0.50	0.50	3.75	
		Road 4									
		LHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
		RHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
		Road 5									
		LHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	120		Cum	1	15.00			0.50	0.50	3.75	
120	135		Cum	1	15.00			0.50	0.50	3.75	
135	150		Cum	1	15.00			0.50	0.50	3.75	
		RHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	

166.25

Assistant Executive Engineer, PMC
R.R. Nagar Sub-Division,
KRIDL, BBMP, Bangalore

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	120		Cum	1	15.00			0.50	0.50	3.75	
120	135		Cum	1	15.00			0.50	0.50	3.75	
135	150		Cum	1	15.00			0.50	0.50	3.75	
		Road 6									
		LHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	120		Cum	1	15.00			0.50	0.50	3.75	
120	135		Cum	1	15.00			0.50	0.50	3.75	
		RHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	60		Cum	1	15.00			0.50	0.50	3.75	
60	75		Cum	1	15.00			0.50	0.50	3.75	
75	90		Cum	1	15.00			0.50	0.50	3.75	
90	105		Cum	1	15.00			0.50	0.50	3.75	
105	120		Cum	1	15.00			0.50	0.50	3.75	
120	135		Cum	1	15.00			0.50	0.50	3.75	
		Raod 7									
		LHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	55		Cum	1	10.00			0.50	0.50	2.50	
		RHS									
0	15		Cum	1	15.00			0.50	0.50	3.75	
15	30		Cum	1	15.00			0.50	0.50	3.75	
30	45		Cum	1	15.00			0.50	0.50	3.75	
45	55		Cum	1	10.00			0.50	0.50	2.50	110
									TOTAL	415.00	
Item no.02		Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) and as per the directions of the Engineer-in-charge of the work .									
		Road1(from NH4)									
		LHS									
8	12		Sqm	1	4.00				1.35	5.40	
18	25		Sqm	1	7.00				1.35	9.45	
38	41		Sqm	1	3.00				1.35	4.05	
50	56		Sqm	1	6.00				1.35	8.10	
65	70		Sqm	1	5.00				1.35	6.75	
80	84		Sqm	1	4.00				1.35	5.40	
95	100		Sqm	1	5.00				1.35	6.75	
110	116		Sqm	1	6.00				1.35	8.10	
		RHS									
3	10		Sqm	1	7.00				1.35	9.45	
19	21		Sqm	1	2.00				1.35	2.70	
36	41		Sqm	1	5.00				1.35	6.75	

72.90

Contactor

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadt	Breadt	Breadth	Depth	Quantity	Remarks
From	To				(m)	A	B	Avg	(m)		
48	53		Sqm	1	5.00				1.35	6.75	
65	70		Sqm	1	5.00				1.35	6.75	
79	85		Sqm	1	6.00				1.35	8.10	
95	100		Sqm	1	5.00				1.35	6.75	
116	121		Sqm	1	5.00				1.35	6.75	
		Road 2									
		LHS									
3	12		Sqm	1	9.00				1.35	12.15	
34	42		Sqm	1	8.00				1.35	10.80	
62	71		Sqm	1	9.00				1.35	12.15	
95	102		Sqm	1	7.00				1.35	9.45	
126	133		Sqm	1	7.00				1.35	9.45	
153	168		Sqm	1	15.00				1.35	20.25	
		RHS									
18	28		Sqm	1	10.00				1.35	13.50	
47	58		Sqm	1	11.00				1.35	14.85	
79	88		Sqm	1	9.00				1.35	12.15	
108	118		Sqm	1	10.00				1.35	13.50	
136.1	150		Sqm	1	13.90				1.35	18.77	
		Road 3									
		LHS									
6	12		Sqm	1	6.00				1.35	8.10	
32	42		Sqm	1	10.00				1.35	13.50	
63	73		Sqm	1	10.00				1.35	13.50	
93	102		Sqm	1	9.00				1.35	12.15	
122	135		Sqm	1	13.00				1.35	17.55	
		RHS									
18	28		Sqm	1	10.00				1.35	13.50	
47	57		Sqm	1	10.00				1.35	13.50	
79	88		Sqm	1	9.00				1.35	12.15	
109	117		Sqm	1	8.00				1.35	10.80	
138	149		Sqm	1	11.00				1.35	14.85	
		Road 4									
		LHS									
5	12.4		Sqm	1	7.40				1.35	9.99	
21	24		Sqm	1	3.00				1.35	4.05	
36	40		Sqm	1	4.00				1.35	5.40	
		RHS									
3	9		Sqm	1	6.00				1.35	8.10	
20	25		Sqm	1	5.00				1.35	6.75	
34.6	38		Sqm	1	3.40				1.35	4.59	
		Road 5									
		LHS									
3	12		Sqm	1	9.00				1.35	12.15	
33	42		Sqm	1	9.00				1.35	12.15	
64	72		Sqm	1	8.00				1.35	10.80	
92	102		Sqm	1	10.00				1.35	13.50	
123	135		Sqm	1	12.00				1.35	16.20	
		RHS									
19	26.5		Sqm	1	7.50				1.35	10.13	
47	58		Sqm	1	11.00				1.35	14.85	
79	89		Sqm	1	10.00				1.35	13.50	
108	118.5		Sqm	1	10.50				1.35	14.18	

18.06

Contactor

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

18/9

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadt	Breadt	Breadth	Depth	Quantity	Remarks
From	To				(m)	A	B	Avg	(m)		
139	148		Sqm	1	9.00				1.35	12.15	
		Road 6									
		LHS									
3	12		Sqm	1	9.00				1.35	12.15	
34	43		Sqm	1	9.00				1.35	12.15	
62	71.2		Sqm	1	9.20				1.35	12.42	
95	102		Sqm	1	7.00				1.35	9.45	
123	132		Sqm	1	9.00				1.35	12.15	
		RHS									
17	28		Sqm	1	11.00				1.35	14.85	
48	59.2		Sqm	1	11.20				1.35	15.12	
75	87		Sqm	1	12.00				1.35	16.20	
108	117		Sqm	1	9.00				1.35	12.15	
		Raod 7									
		LHS									
17	28		Sqm	1	11.00				1.35	14.85	
48	54.6		Sqm	1	6.60				1.35	8.91	
		RHS									
3	12		Sqm	1	9.00				1.35	12.15	
34	42.6		Sqm	1	8.60				1.35	11.61	
		Cover Slab									
2	14		Sqm	1	12.00				1.20	14.40	
17	28		Sqm	1	11.00				1.20	13.20	
31	44		Sqm	1	13.00				1.20	15.60	
47	59		Sqm	1	12.00				1.20	14.40	
62	73		Sqm	1	11.00				1.20	13.20	
77	89		Sqm	1	12.00				1.20	14.40	
92	104		Sqm	1	12.00				1.20	14.40	
106	119		Sqm	1	13.00				1.20	15.60	
123	134		Sqm	1	11.00				1.20	13.20	
136	148		Sqm	1	12.00				1.20	14.40	
152	163		Sqm	1	11.00				1.20	13.20	
167	178		Sqm	1	11.00				1.20	13.20	
181	194		Sqm	1	13.00				1.20	15.60	
196	208.9		Sqm	1	12.90				1.20	15.48	
213	224		Sqm	1	11.00				1.20	13.20	
227	239		Sqm	1	12.00				1.20	14.40	
242	253		Sqm	1	11.00				1.20	13.20	
257	268		Sqm	1	11.00				1.20	13.20	
272	284		Sqm	1	12.00				1.20	14.40	
286	299		Sqm	1	13.00				1.20	15.60	
301	314		Sqm	1	13.00				1.20	15.60	
316	329		Sqm	1	13.00				1.20	15.60	
332	349		Sqm	1	17.00				1.20	20.40	5.12.19
									TOTAL	1053.14	
									Quantity Limited to	1053.12	
Item no.03		Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick and as per the directions of the Engineer-in-charge of the work .									
		Road1(from NH4)									
		LHS									
46	48		Sqm	1	2.00				1.35	2.70	2.70

5/12/19

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

Contractor

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
59	61		Sqm	1	2.00				1.35	2.70	
76	79		Sqm	1	3.00				1.35	4.05	
89	92		Sqm	1	3.00				1.35	4.05	
		RHS									
0	3		Sqm	1	3.00				1.35	4.05	
11	13		Sqm	1	2.00				1.35	2.70	
38	40		Sqm	1	2.00				1.35	2.70	
51	52		Sqm	1	1.00				1.35	1.35	
67	69		Sqm	1	2.00				1.35	2.70	
		Road 2									
		LHS									
0	3.6		Sqm	1	3.60				1.35	4.86	
16	20		Sqm	1	4.00				1.35	5.40	
56	58		Sqm	1	2.00				1.35	2.70	
118	122		Sqm	1	4.00				1.35	5.40	
		RHS									
76	79		Sqm	1	3.00				1.35	4.05	
93	103.6		Sqm	1	10.60				1.35	14.31	
		Road 3									
		LHS									
58	62		Sqm	1	4.00				1.35	5.40	
106	114		Sqm	1	8.00				1.35	10.80	
		RHS									
16	19		Sqm	1	3.00				1.35	4.05	
109	118		Sqm	1	9.00				1.35	12.15	
		Road 4									
		LHS									
19	21.6		Sqm	1	2.60				1.35	3.51	
29	30		Sqm	1	1.00				1.35	1.35	
		RHS									
0	2		Sqm	1	2.00				1.35	2.70	
38	39.6		Sqm	1	1.60				1.35	2.16	
		Road 5									
		LHS									
0	3		Sqm	1	3.00				1.35	4.05	
16	19		Sqm	1	3.00				1.35	4.05	
61	62		Sqm	1	1.00				1.35	1.35	
88	91		Sqm	1	3.00				1.35	4.05	
111	113		Sqm	1	2.00				1.35	2.70	
		RHS									
3	9		Sqm	1	6.00				1.35	8.10	
43	46		Sqm	1	3.00				1.35	4.05	
71	74		Sqm	1	3.00				1.35	4.05	
		Road 6									
		LHS									
34	39		Sqm	1	5.00				1.35	6.75	
62	67.8		Sqm	1	5.80				1.35	7.83	
		RHS									
46	47.8		Sqm	1	1.80				1.35	2.43	
93	102		Sqm	1	9.00				1.35	12.15	
		Raod 7									
		LHS									
28	30		Sqm	1	2.00				1.35	2.70	

167.40

Contactor

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadt	Breadt	Breadth	Depth	Quantity	Remarks
From	To				(m)	A	B	Avg	(m)		
41	43.4		Sqm	1	2.40				1.35	3.24	
		RHS									
0	2.4		Sqm	1	2.40				1.35	3.24	
14	16		Sqm	1	2.00				1.35	2.70	
		Cover Slab									
0	2		Sqm	1	2.00				1.20	2.40	
14	17		Sqm	1	3.00				1.20	3.60	
28	31		Sqm	1	3.00				1.20	3.60	
44	47		Sqm	1	3.00				1.20	3.60	
50	62		Sqm	1	12.00				1.20	14.40	
73	77		Sqm	1	4.00				1.20	4.80	
80	92		Sqm	1	12.00				1.20	14.40	
104	106		Sqm	1	2.00				1.20	2.40	
119	123		Sqm	1	4.00				1.20	4.80	
134	136		Sqm	1	2.00				1.20	2.40	
148	152		Sqm	1	4.00				1.20	4.80	
163	167		Sqm	1	4.00				1.20	4.80	
178	181		Sqm	1	3.00				1.20	3.60	
194	196		Sqm	1	2.00				1.20	2.40	
208.9	213		Sqm	1	4.10				1.20	4.92	
224	227		Sqm	1	3.00				1.20	3.60	
239	242		Sqm	1	3.00				1.20	3.60	
251	257		Sqm	1	6.00				1.20	7.20	
268	272		Sqm	1	4.00				1.20	4.80	
284	286		Sqm	1	2.00				1.20	2.40	
299	301		Sqm	1	2.00				1.20	2.40	
314	316		Sqm	1	2.00				1.20	2.40	
329	332		Sqm	1	3.00				1.20	3.60	
349	350		Sqm	1	1.00				1.20	1.20	47.30
									TOTAL	287.40	
									Quantity Limited to	263.28	NOD DE(QS) 18/9/2020
Item no.04		Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. and as per the directions of the Engineer-in-charge of the work									
0	30		Cum	1	30.00	1.00	1.20	1.10	0.2	6.60	
30	51		Cum	1	21.00	1.20	1.00	1.10	0.2	4.62	
				1							
0	30		Cum	1	30.00	1.00	1.50	1.25	0.2	7.50	
30	60		Cum	1	30.00	1.50	1.20	1.35	0.2	8.10	
60	90		Cum	1	30.00	1.20	1.00	1.10	0.2	6.60	
90	120		Cum	1	30.00	1.00	1.10	1.05	0.2	6.30	
120	134.5		Cum	1	14.50	1.10	1.00	1.05	0.2	3.05	
0	30		Cum	1	30.00	1.00	1.20	1.10	0.2	6.60	
30	43.5		Cum	1	13.50	1.20	1.00	1.10	0.2	2.97	
0	30		Cum	1	30.00	7.40	7.50	7.45	0.2	44.70	
30	60		Cum	1	30.00	7.50	7.50	7.50	0.2	45.00	

142.04

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

Contactor PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
60	90		Cum	1	30.00	7.50	7.50	7.50	0.2	45.00	
90	120		Cum	1	30.00	7.50	7.20	7.35	0.2	44.10	
120	141.5		Cum	1	21.50	7.20	7.80	7.50	0.2	32.25	
0	30		Cum	1	30.00	7.50	7.60	7.55	0.2	45.30	
30	60		Cum	1	30.00	7.60	7.00	7.30	0.2	43.80	
60	90		Cum	1	30.00	7.00	7.60	7.30	0.2	43.80	
90	120		Cum	1	30.00	7.60	6.90	7.25	0.2	43.50	
120	145		Cum	1	25.00	6.90	7.50	7.20	0.2	36.00	
0	30		Cum	1	30.00	9.10	9.00	9.05	0.2	54.30	
30	51		Cum	1	21.00	9.00	9.00	9.00	0.2	37.80	
0	33		Cum	1	33.00	6.10	6.00	6.05	0.2	39.93	
0	30		Cum	1	30.00	3.00	3.50	3.25	0.2	19.50	
30	60		Cum	1	30.00	3.50	3.20	3.35	0.2	20.10	
60	90		Cum	1	30.00	3.20	3.00	3.10	0.2	18.60	
90	111		Cum	1	21.00	3.00	3.20	3.10	0.2	13.02	
									TOTAL	679.04	
									Quantity Limited to	678.12	

Item no.05 **Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. and as per drawing and the directions of Engineer in-charge.**

0	30		Cum	1	30.00	1.00	1.20	1.10	0.23	7.59	
30	51		Cum	1	21.00	1.20	1.00	1.10	0.23	5.31	
				1							
0	30		Cum	1	30.00	1.00	1.50	1.25	0.23	8.63	
30	60		Cum	1	30.00	1.50	1.20	1.35	0.23	9.32	
60	90		Cum	1	30.00	1.20	1.00	1.10	0.23	7.59	
90	120		Cum	1	30.00	1.00	1.10	1.05	0.23	7.25	
120	134.5		Cum	1	14.50	1.10	1.00	1.05	0.23	3.50	
0	30		Cum	1	30.00	1.00	1.20	1.10	0.23	7.59	
30	43.5		Cum	1	13.50	1.20	1.00	1.10	0.23	3.42	
0	30		Cum	1	30.00	7.40	7.50	7.45	0.23	51.41	
30	60		Cum	1	30.00	7.50	7.50	7.50	0.23	51.75	
60	90		Cum	1	30.00	7.50	7.50	7.50	0.23	51.75	
90	120		Cum	1	30.00	7.50	7.20	7.35	0.23	50.72	
120	141.5		Cum	1	21.50	7.20	7.80	7.50	0.23	37.09	
0	30		Cum	1	30.00	7.50	7.60	7.55	0.23	52.10	
30	60		Cum	1	30.00	7.60	7.00	7.30	0.23	50.37	
60	90		Cum	1	30.00	7.00	7.60	7.30	0.23	50.37	
90	120		Cum	1	30.00	7.60	6.90	7.25	0.23	50.03	
120	145		Cum	1	25.00	6.90	7.50	7.20	0.23	41.40	

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

Contractor PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
0	30		Cum	1	30.00	9.10	9.00	9.05	0.23	62.45	
30	51		Cum	1	21.00	9.00	9.00	9.00	0.23	43.47	
0	33		Cum	1	33.00	6.10	6.00	6.05	0.23	45.92	
0	30		Cum	1	30.00	3.00	3.50	3.25	0.23	22.43	
30	60		Cum	1	30.00	3.50	3.20	3.35	0.23	23.12	
60	90		Cum	1	30.00	3.20	3.00	3.10	0.23	21.39	
90	111		Cum	1	21.00	3.00	3.20	3.10	0.23	14.97	23375
									TOTAL	**780.89**	NDD DE(NS) 5/9/2020
									Quantity Limited to	**753.02**	
Item no.06		**Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. and as per drawing and the directions of Engineer in-charge.**									
0	30		Sqm	1	30.00	1.00	1.20	1.10		33.00	
30	51		Sqm	1	21.00	1.20	1.00	1.10		23.10	
				1							
0	30		Sqm	1	30.00	1.00	1.50	1.25		37.50	
30	60		Sqm	1	30.00	1.50	1.20	1.35		40.50	
60	90		Sqm	1	30.00	1.20	1.00	1.10		33.00	
90	120		Sqm	1	30.00	1.00	1.10	1.05		31.50	
120	134.5		Sqm	1	14.50	1.10	1.00	1.05		15.23	
0	30		Sqm	1	30.00	1.00	1.20	1.10		33.00	
30	43.5		Sqm	1	13.50	1.20	1.00	1.10		14.85	
0	30		Sqm	1	30.00	7.40	7.50	7.45		223.50	
30	60		Sqm	1	30.00	7.50	7.50	7.50		225.00	
60	90		Sqm	1	30.00	7.50	7.50	7.50		225.00	
90	120		Sqm	1	30.00	7.50	7.20	7.35		220.50	
120	141.5		Sqm	1	21.50	7.20	7.80	7.50		161.25	
0	30		Sqm	1	30.00	7.50	7.60	7.55		226.50	
30	60		Sqm	1	30.00	7.60	7.00	7.30		219.00	
60	90		Sqm	1	30.00	7.00	7.60	7.30		219.00	
90	120		Sqm	1	30.00	7.60	6.90	7.25		217.50	
120	145		Sqm	1	25.00	6.90	7.50	7.20		180.00	
0	30		Sqm	1	30.00	9.10	9.00	9.05		271.50	
30	51		Sqm	1	21.00	9.00	9.00	9.00		189.00	
0	33		Sqm	1	33.00	6.10	6.00	6.05		199.65	
0	30		Sqm	1	30.00	3.00	3.50	3.25		97.50	
30	60		Sqm	1	30.00	3.50	3.20	3.35		100.50	
60	90		Sqm	1	30.00	3.20	3.00	3.10		93.00	
90	111		Sqm	1	21.00	3.00	3.20	3.10		65.10	
									TOTAL	**3395.18**	3620.18 NDD DE(NS) 05/9/2020

Contactor PMC Assistant Engineer Assistant Executive Engineer

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
								Quantity Limited to		3274.00	
Item no.07		Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. and the directions of Engineer in-charge.									
		1st Cross Road									
0	30		Sqm	1	30.00	6.50	6.40	6.45		193.50	
30	51		Sqm	1	21.00	6.40	6.50	6.45		135.45	
		2nd Cross Road		1							
0	30		Sqm	1	30.00	7.50	7.40	7.45		223.50	
30	60		Sqm	1	30.00	7.40	7.50	7.45		223.50	
60	90		Sqm	1	30.00	7.50	7.00	7.25		217.50	
90	120		Sqm	1	30.00	7.00	7.50	7.25		217.50	
120	150		Sqm	1	30.00	7.50	7.30	7.40		222.00	
150	164.5		Sqm	1	14.50	7.30	7.00	7.15		103.68	
		3rd Cross Road									
0	30		Sqm	1	30.00	6.60	6.60	6.60		198.00	
30	43.5		Sqm	1	13.50	6.60	6.80	6.70		90.45	
		4th Cross Road									
0	30		Sqm	1	30.00	7.40	7.50	7.45		223.50	
30	60		Sqm	1	30.00	7.50	7.50	7.50		225.00	
60	90		Sqm	1	30.00	7.50	7.50	7.50		225.00	
90	120		Sqm	1	30.00	7.50	7.20	7.35		220.50	
120	150		Sqm	1	30.00	7.20	7.30	7.25		217.50	
150	171.5		Sqm	1	21.50	7.30	7.80	7.55		162.33	
		Main Road									
0	30		Sqm	1	30.00	7.50	7.60	7.55		226.50	
30	60		Sqm	1	30.00	7.60	7.00	7.30		219.00	
60	90		Sqm	1	30.00	7.00	7.60	7.30		219.00	
90	120		Sqm	1	30.00	7.60	6.90	7.25		217.50	
120	150		Sqm	1	30.00	6.90	7.00	6.95		208.50	
150	175		Sqm	1	25.00	7.00	7.50	7.25		181.25	
0	30		Sqm	1	30.00	9.10	9.00	9.05		271.50	
30	51		Sqm	1	21.00	9.00	9.00	9.00		189.00	
0	33		Sqm	1	33.00	6.10	6.00	6.05		199.65	
		5th Cross Road									
0	30		Sqm	1	30.00	6.30	6.60	6.45		193.50	
30	60		Sqm	1	30.00	6.60	6.20	6.40		192.00	
60	90		Sqm	1	30.00	6.20	6.30	6.25		187.50	
90	120		Sqm	1	30.00	6.30	6.50	6.40		192.00	
120	150		Sqm	1	30.00	6.50	6.30	6.40		192.00	
150	180		Sqm	1	30.00	6.30	6.30	6.30		189.00	
									TOTAL	6176.80	
									Now To Be Paid	6176.80	

Item no.08		Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .									
		1st Cross Road									

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer
Kodigehalli Sub Division.
Yelahanka Zone, B.B.M.P
Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	
0	30		Sqm	1	30.00	6.50	6.40	6.45		193.50	
30	51		Sqm	1	21.00	6.40	6.50	6.45		135.45	
		2nd Cross Road		1							
0	30		Sqm	1	30.00	7.50	7.40	7.45		223.50	
30	60		Sqm	1	30.00	7.40	7.50	7.45		223.50	
60	90		Sqm	1	30.00	7.50	7.00	7.25		217.50	
90	120		Sqm	1	30.00	7.00	7.50	7.25		217.50	
120	150		Sqm	1	30.00	7.50	7.30	7.40		222.00	
150	164.5		Sqm	1	14.50	7.30	7.00	7.15		103.68	
		3rd Cross Road									
0	30		Sqm	1	30.00	6.60	6.60	6.60		198.00	
30	43.5		Sqm	1	13.50	6.60	6.80	6.70		90.45	
		4th Cross Road									
0	30		Sqm	1	30.00	7.40	7.50	7.45		223.50	
30	60		Sqm	1	30.00	7.50	7.50	7.50		225.00	
60	90		Sqm	1	30.00	7.50	7.50	7.50		225.00	
90	120		Sqm	1	30.00	7.50	7.20	7.35		220.50	
120	150		Sqm	1	30.00	7.20	7.30	7.25		217.50	
150	171.5		Sqm	1	21.50	7.30	7.80	7.55		162.33	
		Main Road									
0	30		Sqm	1	30.00	7.50	7.60	7.55		226.50	
30	60		Sqm	1	30.00	7.60	7.00	7.30		219.00	
60	90		Sqm	1	30.00	7.00	7.60	7.30		219.00	
90	120		Sqm	1	30.00	7.60	6.90	7.25		217.50	
120	150		Sqm	1	30.00	6.90	7.00	6.95		208.50	
150	175		Sqm	1	25.00	7.00	7.50	7.25		181.25	
0	30		Sqm	1	30.00	9.10	9.00	9.05		271.50	
30	51		Sqm	1	21.00	9.00	9.00	9.00		189.00	
0	33		Sqm	1	33.00	6.10	6.00	6.05		199.65	
		5th Cross Road									
0	30		Sqm	1	30.00	6.30	6.60	6.45		193.50	
30	60		Sqm	1	30.00	6.60	6.20	6.40		192.00	
60	90		Sqm	1	30.00	6.20	6.30	6.25		187.50	
90	120		Sqm	1	30.00	6.30	6.50	6.40		192.00	
120	**150**		**Sqm**	**1**	30.00	6.50	6.30	6.40		192.00	
150	**180**		**Sqm**	**1**	30.00	6.30	6.30	6.30		189.00	
									Total	**6176.80**	

Item no.09	**Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification and as per the directions of the Engineer-in-charge of the work .**

		1st Cross Road									
0	30		Cum	1	30.00	6.50	6.40	6.45	0.04	7.74	
30	51		Cum	1	21.00	6.40	6.50	6.45	0.04	5.42	
		2nd Cross Road		1							
0	30		Cum	1	30.00	7.50	7.40	7.45	0.04	8.94	
30	60		Cum	1	30.00	7.40	7.50	7.45	0.04	8.94	
60	90		Cum	1	30.00	7.50	7.00	7.25	0.04	8.70	

30/09

39.74

Audit report

Contractor

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
90	120		Cum	1	30.00	7.00	7.50	7.25	0.04	8.70	
120	150		Cum	1	30.00	7.50	7.30	7.40	0.04	8.88	
150	164.5		Cum	1	14.50	7.30	7.00	7.15	0.04	4.15	
		3rd Cross Road									
0	30		Cum	1	30.00	6.60	6.60	6.60	0.04	7.92	
30	43.5		Cum	1	13.50	6.60	6.80	6.70	0.04	3.62	
		4th Cross Road									
0	30		Cum	1	30.00	7.40	7.50	7.45	0.04	8.94	
30	60		Cum	1	30.00	7.50	7.50	7.50	0.04	9.00	
60	90		Cum	1	30.00	7.50	7.50	7.50	0.04	9.00	
90	120		Cum	1	30.00	7.50	7.20	7.35	0.04	8.82	
120	150		Cum	1	30.00	7.20	7.30	7.25	0.04	8.70	
150	171.5		Cum	1	21.50	7.30	7.80	7.55	0.04	6.49	
		Main Road									
0	30		Cum	1	30.00	7.50	7.60	7.55	0.04	9.06	
30	60		Cum	1	30.00	7.60	7.00	7.30	0.04	8.76	
60	90		Cum	1	30.00	7.00	7.60	7.30	0.04	8.76	
90	120		Cum	1	30.00	7.60	6.90	7.25	0.04	8.70	
120	150		Cum	1	30.00	6.90	7.00	6.95	0.04	8.34	
150	175		Cum	1	25.00	7.00	7.50	7.25	0.04	7.25	
0	30		Cum	1	30.00	9.10	9.00	9.05	0.04	10.86	
30	51		Cum	1	21.00	9.00	9.00	9.00	0.04	7.56	
0	33		Cum	1	33.00	6.10	6.00	6.05	0.04	7.99	
		5th Cross Road									
0	30		Cum	1	30.00	6.30	6.60	6.45	0.04	7.74	
30	60		Cum	1	30.00	6.60	6.20	6.40	0.04	7.68	
60	90		Cum	1	30.00	6.20	6.30	6.25	0.04	7.50	
90	120		Cum	1	30.00	6.30	6.50	6.40	0.04	7.68	
120	150		Cum	1	30.00	6.50	6.30	6.40	0.04	7.68	
150	180		Cum	1	30.00	6.30	6.30	6.30	0.04	7.56	
									Total	**247.07**	

Item no.10		Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work									
		1st Cross Road									
0	30		Sqm	2	30.00			0.10		6.00	
30	51		Sqm	2	21.00			0.10		4.20	
		2nd Cross Road									
0	30		Sqm	2	30.00			0.10		6.00	
30	60		Sqm	2	30.00			0.10		6.00	
60	90		Sqm	2	30.00			0.10		6.00	
90	120		Sqm	2	30.00			0.10		6.00	
120	150		Sqm	2	30.00			0.10		6.00	
150	164.5		Sqm	2	14.50			0.10		2.90	
		3rd Cross Road									
0	30		Sqm	2	30.00			0.10		6.00	
30	43.5		Sqm	2	13.50			0.10		2.70	51.80
		4th Cross Road									

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

Contractor PMC Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL											
Chainage		Description of Item	Unit	No	Length	Breadt	Breadt	Breadth	Depth	Quantity	Remarks
From	To				(m)	A	B	Avg	(m)		
0	30		Sqm	2	30.00			0.10		6.00	
30	60		Sqm	2	30.00			0.10		6.00	
60	90		Sqm	2	30.00			0.10		6.00	
90	120		Sqm	2	30.00			0.10		6.00	
120	150		Sqm	2	30.00			0.10		6.00	
150	171.5		Sqm	2	21.50			0.10		4.30	
		Main Road									
0	30		Sqm	2	30.00			0.10		6.00	
30	60		Sqm	2	30.00			0.10		6.00	
60	90		Sqm	2	30.00			0.10		6.00	
90	120		Sqm	2	30.00			0.10		6.00	
120	150		Sqm	2	30.00			0.10		6.00	
150	175		Sqm	2	25.00			0.10		5.00	
0	30		Sqm	2	30.00			0.10		6.00	
30	51		Sqm	2	21.00			0.10		4.20	
0	33		Sqm	2	33.00			0.10		6.60	
		5th Cross Road									
0	30		Sqm	2	30.00			0.10		6.00	
30	60		Sqm	2	30.00			0.10		6.00	
60	90		Sqm	2	30.00			0.10		6.00	
90	120		Sqm	2	30.00			0.10		6.00	
120	150		Sqm	2	30.00			0.10		6.00	
150	180		Sqm	2	30.00			0.10		6.00	
									Total	173.90	

Item no 11	**Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete. and as per the directions of the Engineer-in-charge of the work**	
	Not Excecuted	
Item no 12	**Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. and as per the directions of the Engineer-in-charge of the work**	
	Not Excecuted	
Item no 13	**Providing and applying spray painting in two coats (excluding priming coat) over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. and as per the directions of the Engineer-in-charge of the work**	
	Not Excecuted	
Item no 14	**Providing and laying heavy cobble stones 60mm thick interlock pavers, using cement and course sand for manufactures of blocks of approved size, shape and colour with a minimum compressive strength of 281 Kg/per sqm over 50mm thick sand bed (avg thickness) and compacting with plate vibrtaor having 3 tons compactiion force there by forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including coat of materials, labour and hom machineries complete as per specifications .and as per the directions of the Engineer-in-charge of the work**	
	Not Excecuted	

12.2.10 (DECEST) 18/9/2020

Contactor PMC Assistant Engineer Assistant Executive Engineer

Assistant Executive Engineer, R.R. Nagar, Sub-Division, KRIDL, BBMP, Bangalore

Assistant Executive Engineer Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
E1		**Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work**									
0	9		Sqm	2	9.00				0.4	7.20	
9	17		Sqm	2	8.00				0.4	6.40	
17	34.3		Sqm	2	17.30				0.4	13.84	
34.3	52.3		Sqm	2	18.00				0.4	14.40	
52.3	79.3		Sqm	2	27.00				0.4	21.60	
79.3	89.3		Sqm	2	10.00				0.4	8.00	
89.3	101.6		Sqm	2	12.30				0.4	9.84	
101.6	126.6		Sqm	2	25.00				0.4	20.00	
126.6	156.6		Sqm	2	30.00				0.4	24.00	
156.6	170.1		Sqm	2	13.50				0.4	10.80	
170.1	211.1		Sqm	2	41.00				0.4	32.80	
									Total	**168.88**	
									Quantity Limited to	**128.00**	
E2		**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification and as per the directions of the Engineer-in-charge of the work**									
		Bed Concrete									
0	9		Cum	1	9.00			0.45	0.1	0.41	
9	17		Cum	1	8.00			0.45	0.1	0.36	
17	34.3		Cum	1	17.30			0.45	0.1	0.78	
34.3	52.3		Cum	1	18.00			0.45	0.1	0.81	
52.3	79.3		Cum	1	27.00			0.45	0.1	1.22	
79.3	89.3		Cum	1	10.00			0.45	0.1	0.45	
89.3	101.6		Cum	1	12.30			0.45	0.1	0.55	
101.6	126.6		Cum	1	25.00			0.45	0.1	1.13	
126.6	156.6		Cum	1	30.00			0.45	0.1	1.35	
156.6	170.1		Cum	1	13.50			0.45	0.1	0.61	
170.1	211.1		Cum	1	41.00			0.45	0.1	1.85	
		Coping Concrete									
0	9		Cum	2	9.00			0.20	0.1	0.36	
9	17		Cum	2	8.00			0.20	0.1	0.32	
17	34.3		Cum	2	17.30			0.20	0.1	0.69	
34.3	52.3		Cum	2	18.00			0.20	0.1	0.72	
52.3	79.3		Cum	2	27.00			0.20	0.1	1.08	
79.3	89.3		Cum	2	10.00			0.20	0.1	0.40	
89.3	101.6		Cum	2	12.30			0.20	0.1	0.49	
101.6	126.6		Cum	2	25.00			0.20	0.1	1.00	
126.6	156.6		Cum	2	30.00			0.20	0.1	1.20	
156.6	170.1		Cum	2	13.50			0.20	0.1	0.54	
170.1	211.1		Cum	2	41.00			0.20	0.1	1.64	
									Total	**17.94**	
									Quantity Limited to	**13.60**	

AEE 18/9/2020

AEE (Ver) 18/9/2020.

Contactor

PMC

Assistant Engineer

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

MEASUREMENT SHEET - 1st and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadt A	Breadt B	Breadth Avg	Depth (m)	Quantity	Remarks
E3		Providing precast slab of 100 mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete and as per the directions of the Engineer-in-charge of the work									
0	9		Sqm	1	9.00				1.2	10.80	
9	17		Sqm	1	8.00				1.2	9.60	
17	34.3		Sqm	1	17.30				1.2	20.76	
34.3	52.3		Sqm	1	18.00				1.2	21.60	
52.3	79.3		Sqm	1	27.00				1.2	32.40	
79.3	89.3		Sqm	1	10.00				1.2	12.00	
89.3	101.6		Sqm	1	12.30				1.2	14.76	
101.6	126.6		Sqm	1	25.00				1.2	30.00	
126.6	156.6		Sqm	1	30.00				1.2	36.00	
156.6	170.1		Sqm	1	13.50				1.2	16.20	
170.1	211.1		Sqm	1	41.00				1.2	49.20	
									Total	253.32	
									Quantity Limited to	192.00	

NOD
DE(E)
18/9/2020.

Assistant Executive Engineer,
R.R. Nagar, Sub-Division,
KRIDL, BBMP, Bangalore

Contractor PMC Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:Improvements to Roads at Deo Residency and Legacy area of Jakkur Plantation in Ward No 07, Byatarayanapura

Measurements Taken On :

ABSTRACT OF MEASUREMENT SHEET - 1st and FINAL BILL

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No. 1	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. and as per the directions of the Engineer-in-charge of the work .	Cum	415.00			
	present Qty	Cum	415.00			
	Previous Bill Qty	Cum	-			
	Total	Cum	415.00			
	Tender Qty	Cum	415.00			
	Now to be paid	Cum	415.00	186.92	77571.80	
Item No. 02	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) and as per the directions of the Engineer-in-charge of the work .	Sqm	1053.14			
	present Qty	Sqm	1053.14			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	1053.14			
	Tender Qty	Sqm	1053.12			
	Now to be paid	Sqm	1053.14			
	Quantity Limited to	Sqm	1053.12	80.56	84839.35	
Item No. 03	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick and as per the directions of the Engineer-in-charge of the work	Sqm	287.40			
	present Qty	Sqm	287.40			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	287.40			
	Tender Qty	Sqm	263.28			
	Now to be paid	Sqm	287.40			
	Quantity Limited to	Sqm	263.28	665.68	175260.23	
Item No. 04	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Cum	679.04			
	present Qty	Cum	679.04			
	Previous Bill Qty	Cum	-			

Contractor PMC AssistantEngineer Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Rem s
	Total	**Cum**	**679.04**			
	Tender Qty	**Cum**	**678.12**			
	Now to be paid	**Cum**	**679.04**			
	Quantity Limited to	**Cum**	**678.12**	**148.76**	**100877.13**	
Item No.05	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. and as per drawing and the directions of Engineer in-charge.	**Cum**	**780.89**			
	present Qty	**Cum**	**780.89**			
	Previous Bill Qty	**Cum**	**-**			
	Total	**Cum**	**780.89**			
	Tender Qty	**Cum**	**753.02**			
	Now to be paid	**Cum**	**780.89**			
	Quantity Limited to	**Cum**	**753.02**	**1768.08**	**1331399.60**	
Item No.06	Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. and as per drawing and the directions of Engineer in-charge.	**Sqm**	**3395.18**			
	present Qty	**Sqm**	**3395.18**			
	Previous Bill Qty	**Sqm**	**-**			
	Total	**Sqm**	**3395.18**			
	Tender Qty	**Sqm**	**3274.00**			
	Now to be paid	**Sqm**	**3395.18**			
	Quantity Limited to	**Sqm**	**3274.00**	**27.56**	**90231.44**	
Item No.07	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. and the directions of Engineer in-charge.	**Sqm**	**6176.80**			
	present Qty	**Sqm**	**6176.80**			
	Previous Bill Qty	**Sqm**	**-**			
	Total	**Sqm**	**6176.80**			
	Tender Qty	**Sqm**	**6194.00**			
	Now to be paid	**Sqm**	**6176.80**	**3.18**	**19642.22**	

Contractor

PMC

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
Item No.08	Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications and as per the directions of the Engineer-in-charge of the work .	Sqm	6176.80			
	present Qty	Sqm	6176.80			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	6176.80			
	Tender Qty	Sqm	6194.00			
	Now to be paid	Sqm	6176.80	11.66	72021.49	
Item No.09	Providing and laying bituminous concrete 40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 6% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification and as per the directions of the Engineer-in-charge of the work .	Cum	247.07			
	present Qty	Cum	247.07			
	Previous Bill Qty	Cum	-			
	Total	Cum	247.07			
	Tender Qty	Cum	247.76		1750238.93	
	Now to be paid	Cum	247.07	7083.98	1750253.11	
Item No.10	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications and as per the directions of the Engineer-in-charge of the work	Sqm	173.90			
	present Qty	Sqm	173.90			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	173.90			
	Tender Qty	Sqm	180.50			
	Now to be paid	Sqm	173.90	542.72	94379.01	
Item No.11	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x200x400 mm and finished with CM 1:3 plastering and finishing cutting etc., complete. and as per the directions of the Engineer-in-charge of the work	Nos				
	Not Excecuted					

Contractor PMC AssistantEngineer Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Rem. ks
Item No.12	Providing and applying ready mix priming coat over oncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. and as per the directions of the Engineer-in-charge of the work .	Sqm				
	Not Excecuted					
Item No.13	Providing and applying spray painting in two coats (excluding priming coat) over oncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications. and as per the directions of the Engineer-in-charge of the work	Sqm				
	Not Excecuted					
Item No.14	Providing and laying heavy cobble stones 60mm thick interlock pavers, using cement and course sand for manufactures of blocks of approved size, shape and colour with a minimum compressive strength of 281 Kg/per sqm over 50mm thick sand bed (avg thickness) and compacting with plate vibrtaor having 3 tons compactiion force there by forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including coat of materials, labour and hom machineries complete as per specifications .and as per the directions of the Engineer-in-charge of the work	Sqm				
	Not Excecuted					
E1	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. and as per the directions of the Engineer-in-charge of the work	Sqm	168.88			
	present Qty	Sqm	168.88			
	Previous Bill Qty	Sqm	-			
	Total	Sqm	168.88			
	Tender Qty	Sqm	128.00			
	Now to be paid	Sqm	168.88			
	Quantity Limited to	Sqm	128.00	979.44	125368.32	
E2	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification and as per the directions of the Engineer-in-charge of the work	Cum	17.94			
	present Qty	Cum	17.94			
	Previous Bill Qty	Cum	-			

Contractor PMC AssistantEngineer Assistant Executive Engineer.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Item No	Description	Unit	Quantity	Approved Tender Rates	Amount	Remarks
	Total	**Cum**	**17.94**			
	Tender Qty	**Cum**	**13.60**			
	Now to be paid	**Cum**	**17.94**			
	Quantity Limited to	**Cum**	**13.60**	**5599.98**	**76159.73**	
E3	Providing precast slab of 100 mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete and as per the directions of the Engineer-in-charge of the work	**Sqm**	**253.32**			
	present Qty	**Sqm**	**253.32**			
	Previous Bill Qty	**Sqm**	**-**			
	Total	**Sqm**	**253.32**			
	Tender Qty	**Sqm**	**192.00**			
	Now to be paid	**Sqm**	**253.32**			
	Quantity Limited to	**Sqm**	**192.00**	**2337.00**	**448704.00**	
				SUB TOTAL AMOUNT	**4446707.42**	
				Add KRIDL @ 10%	**444670.74**	
				Labour Cess @ 1%	**44467.07**	
				TOTAL AMOUNT	**4935845.24**	

Contractor

PMC

AssistantEngineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore